

Title (en)
MOISTURE CONDITIONING DEVICE

Title (de)
FEUCHTIGKEITSKONDITIONIERVORRICHTUNG

Title (fr)
DISPOSITIF DE CONDITIONNEMENT D'HUMIDITÉ

Publication
EP 1898162 A1 20080312 (EN)

Application
EP 06756743 A 20060530

Priority
• JP 2006310747 W 20060530
• JP 2005157623 A 20050530

Abstract (en)
A humidity control system (10) includes a refrigerant circuit (50) including a compressor (53), a first adsorption heat exchanger (51) carrying an adsorbent thereon, an expansion valve (55) adjustable in opening and a second adsorption heat exchanger (52) carrying an adsorbent thereon, supplies humidity-controlled air to a room by operating alternately in a first batch mode in which the second adsorption heat exchanger (52) adsorbs moisture in air and the first adsorption heat exchanger (51) releases moisture to air and a second batch mode in which the first adsorption heat exchanger (51) adsorbs moisture in air and the second adsorption heat exchanger (52) releases moisture to air, controls the opening of the expansion valve (55), sets, upon start of the first batch mode, the opening of the expansion valve (55) to that at the end of the preceding first batch mode and sets, upon start of the second batch mode, the opening of the expansion valve (55) to that at the end of the preceding second batch mode.

IPC 8 full level
F24F 11/02 (2006.01); **F24F 3/14** (2006.01)

CPC (source: EP KR US)
F24F 3/1411 (2013.01 - EP US); **F24F 3/1429** (2013.01 - EP KR US); **F24F 11/0008** (2013.01 - KR); **F24F 11/65** (2017.12 - KR); **F25B 13/00** (2013.01 - KR); **F25B 13/00** (2013.01 - EP US); **F25B 2600/2513** (2013.01 - EP KR US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1898162 A1 20080312; **EP 1898162 A4 20090422**; **EP 1898162 B1 20160309**; AU 2006253460 A1 20061207; AU 2006253460 B2 20091210; CN 100557327 C 20091104; CN 101171460 A 20080430; JP 2006329590 A 20061207; JP 4067009 B2 20080326; KR 100958995 B1 20100520; KR 20080005435 A 20080111; US 2009230203 A1 20090917; WO 2006129644 A1 20061207

DOCDB simple family (application)
EP 06756743 A 20060530; AU 2006253460 A 20060530; CN 200680015329 A 20060530; JP 2005157623 A 20050530; JP 2006310747 W 20060530; KR 20077026963 A 20060530; US 92124406 A 20060530